

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/031410 A2

(51) International Patent Classification⁷: C12Q 1/68 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

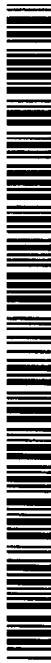
(21) International Application Number: PCT/JP2003/011711 (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(22) International Filing Date: 12 September 2003 (12.09.2003) (25) Filing Language: English (26) Publication Language: English

(30) Priority Data: 60/414,677 30 September 2002 (30.09.2002) US (71) Applicants (*for all designated States except US*): ON-COTHERAPY SCIENCE, INC. [JP/JP]; 3-16-13, Shirokanedai, Minato-ku, Tokyo 108-0071 (JP). JAPAN AS REPRESENTED BY THE PRESIDENT OF THE UNIVERSITY OF TOKYO [JP/JP]; 3-1, Hongo 7-chome, Bunkyo-ku, Tokyo 113-8654 (JP).

(72) Inventors; and (75) Inventors/Applicants (*for US only*): NAKAMURA, Yusuke [JP/JP]; 17-33, Azamino 1-chome, Aoba-ku, Yokohama-shi, Kanagawa 225-0011 (JP). KATAGIRI, Toyomasa [JP/JP]; 2-10-11-305, Higashitanda, Shinagawa-ku, Tokyo 141-0022 (JP).

(74) Agents: SHIMIZU, Hatsuhi et al.; Kantetsu Tsukuba Bldg. 6F, 1-1-1, Orosi-machi, Tsuchiura-shi, Ibaraki 300-0847 (JP).



WO 2004/031410 A2

Declarations under Rule 4.17:

- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

Published:

- without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR DIAGNOSING TESTICULAR SEMINOMAS

(57) Abstract: Objective methods for detecting and diagnosing testicular seminoma (TS) are described herein. In one embodiment, the diagnostic method involves determining a expression level of TS -associated gene that discriminate between TS and normal cell. The present invention further provides methods of screening for therapeutic agents useful in the treatment of TS, methods of treating TS and method of vaccinating a subject against TS.